Package 'neatR'

May 9, 2026

Type Package

Title Neat Data for Presentation

Version 0.3.0

Description Utilities for unambiguous, neat and legible
representation of data (date, time stamp, numbers, percentages and strings)
for presentation of analysis , aiming for elegance and consistency.
The purpose of this package is to format data, that is better
for presentation and any automation jobs that reports numbers.

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Encoding UTF-8

Imports data.table, magrittr, tools

Suggests knitr, rmarkdown, testthat (>= 3.0.0)

RoxygenNote 7.3.3

Config/testthat/edition 3

VignetteBuilder knitr

NeedsCompilation no

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Depends R (>= 4.1.0)

Repository CRAN

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Contents

`f` *Smart format function that infers type and applies neatR formatting.*

Description

Smart format function that infers type and applies neatR formatting.

Usage

```
f(x, format_type = NULL, ...)
```

Arguments

`x`	Input data to format.
`format_type`	Explicit format type: 'day', 'date', 'ts', 'number', 'percent', 'string'. If NULL, type is inferred.
`...`	Additional parameters passed to the underlying formatting functions.

Value

Formatted string or vector of strings.

`ndate` *neat representation of dates*

Description

neat representation of dates

Usage

```
ndate(
  date,
  show_weekday = TRUE,
  show_month_year = FALSE,
  display_weekday = NULL,
  is_month = NULL
)
```

Arguments

date	a Date or POSIX time stamp
show_weekday	a Boolean. Whether the weekday of the date to be included.
show_month_year	a Boolean variable representing if the date represents month. If this set to TRUE, the function returns 'MMMM'YY' as the output which is a neater representation of month.
display_weekday	Deprecated. Use 'show_weekday' instead.
is_month	Deprecated. Use 'show_month_year' instead.

Value

String representation of the date

Examples

```
# Neat representation of current date
x <- Sys.Date()
ndate(x)
# Neat representation of current date with day of week.
ndate(x, show_weekday = FALSE)
# Neat representation of current date with only month and year
ndate(x, show_weekday = FALSE, show_month_year = TRUE)
```

---

nday *neat alias of the week day with reference based on current date*

Description

neat alias of the week day with reference based on current date

Usage

```
nday(date, show_relative_day = FALSE, reference_alias = NULL)
```

Arguments

date	a Date or POSIX time stamp
show_relative_day	a Boolean. If set to TRUE, a reference alias of week day is shown based on current date such as Today/Yesterday/Tomorrow/Last/Coming.
reference_alias	Deprecated. Use 'show_relative_day' instead.

Value

week day of the date in a readable format with reference alias based on current date

Examples

```
# Get day of the week of current date without reference alias
x <- Sys.Date()
nday(x, show_relative_day = FALSE)
# Get day of the week with reference alias
nday(x, show_relative_day = TRUE)
```

---

nnumber *neat representation of numbers*

Description

neat representation of numbers

Usage

```
nnumber(
  number,
  digits = 1,
  unit = "custom",
 unit_labels = list(thousand = "K", million = "Mn", billion = "Bn", trillion = "Tn"),
  prefix = "",
  suffix = "",
  thousand_separator = ","
)
```

Arguments

number	an integer or double.
digits	number of digits to round-off. Default value is 1.
unit	unit to which the number to be converted. See examples below.
unit_labels	a vector of strings (optional) that gives the unit label for thousand, million, billion and trillion.
prefix	a string (optional) that can be prepended to the formatted number.
suffix	a string (optional) that can be appended at the end of the formatted number.
thousand_separator	a character (optional) that can be used to chunk thousands to display large numbers. Default is set as comma, dot, comma or underscore can be used.

Value

String representation of numbers with suffix denoting K for thousands,Mn for millions, Bn for billions, Tn for trillions. A number lower than thousand is represented as it is.

Examples

```
x <- c(
  10, 100, 1000, 10000, 100000, 1000000, 10000000, 100000000,
  1000000000
)
nnumber(x)
nnumber(123456789.123456, digits = 1)
nnumber(123456789.123456, digits = 1, unit = "Mn", prefix = "$")
```

`npercent` *neat representation of percentage*

Description

neat representation of percentage

Usage

```
npercent(
  percent,
  is_ratio = TRUE,
  digits = 1,
  show_plus_sign = TRUE,
  show_growth_factor = FALSE,
  show_bps = FALSE,
  is_decimal = NULL,
  plus_sign = NULL,
  factor_out = NULL,
  basis_points_out = NULL
)
```

Arguments

`percent`	an integer or double representing percentage
`is_ratio`	a Boolean variable. If the percent is raw, the value to set as TRUE. See examples below. If the percent variable is already pre-multiplied by 100 then the value to be set as FALSE.
`digits`	number of digits to round-off
`show_plus_sign`	a Boolean variable. If the percent is positive then setting show_plus_sign = TRUE, includes an explicit + sign before the percent
`show_growth_factor`	an optional Boolean variable.
`show_bps`	an optional parameter to get the percentage as basis points If the percent exceeds |100 readable factors. See examples below.
`is_decimal`	Deprecated. Use 'is_ratio' instead.

plus_sign	Deprecated. Use 'show_plus_sign' instead.
factor_out	Deprecated. Use 'show_growth_factor' instead.
basis_points_out	Deprecated. Use 'show_bps' instead.

Value

String representation of the percentages.

Examples

```
# Formatting 22.3%
npercent(0.223, is_ratio = TRUE, digits = 1)
npercent(22.3, is_ratio = FALSE, digits = 1)
# Formatting percentages with growth factors
npercent(c(-4.01, 2.56), is_ratio = TRUE, show_growth_factor = TRUE)
# Formatting percentages as basis points
npercent(
  c(-1, -0.5, -0.1, -0.01, 0, 0.01, 0.1, 0.5, 1),
  is_ratio = TRUE, show_bps = TRUE
)
```

---

nstring *neat representation of string*

Description

neat representation of string

Usage

```
nstring(
  text,
  case = NULL,
  remove_specials = FALSE,
  keep_chars = "",
  ascii_only = FALSE,
  string = NULL,
  whitelist_specials = NULL,
  en_only = NULL
)
```

Arguments

text	a string / character
case	a string, It specifies how the string should be formatted. Current options are 'lower', 'upper', 'title', 'start' and 'initcap'.

remove_specials
: a Boolean. If TRUE, special characters are removed from the string.

keep_chars
: a vector of characters that are kept even if remove_specials is TRUE.

ascii_only
: a Boolean. If TRUE, only ASCII characters are kept.

string
: Deprecated. Use 'text' instead.

whitelist_specials
: Deprecated. Use 'keep_chars' instead.

en_only
: Deprecated. Use 'ascii_only' instead.

Value

White space cleaned and optionally formatted by case conversion and removal of special characters of the input string.

Examples

```
nstring("   All MOdels are wrong.   some ARE useful!!! ",
  case = "title",
  remove_specials = TRUE
)
nstring("all Models are Wrong some are Useful",
  case = "start",
  remove_specials = TRUE
)
nstring("variable_123!!", remove_specials = TRUE, keep_chars = c("_"))
```

---

ntimestamp *neat representation of time stamp*

Description

neat representation of time stamp

Usage

```
ntimestamp(
  timestamp,
  show_weekday = TRUE,
  show_date = TRUE,
  show_hours = TRUE,
  show_minutes = TRUE,
  show_seconds = TRUE,
  show_timezone = TRUE,
  display_weekday = NULL,
  include_date = NULL,
  include_hours = NULL,
  include_minutes = NULL,
```

```
  include_seconds = NULL,
  include_timezone = NULL
)
```

Arguments

timestamp	a POSIX time stamp
show_weekday	a Boolean representing if the weekday of the timestamp to be included. By default it is set to TRUE
show_date	a Boolean representing if the date of time stamp to be included. By default it is set to TRUE.
show_hours	a Boolean representing if the hours to be included. By default it is set to TRUE
show_minutes	a Boolean representing if the minutes to be included. By default it is set to TRUE
show_seconds	a Boolean representing if the seconds to be included. By default it is set to TRUE
show_timezone	a Boolean variable representing if the timezone of the date variable to be included. By default it is set to TRUE.
display_weekday	Deprecated. Use 'show_weekday' instead.
include_date	Deprecated. Use 'show_date' instead.
include_hours	Deprecated. Use 'show_hours' instead.
include_minutes	Deprecated. Use 'show_minutes' instead.
include_seconds	Deprecated. Use 'show_seconds' instead.
include_timezone	Deprecated. Use 'show_timezone' instead.

Value

String representation of time stamp

Examples

```
# Neat representation of time stamp
x <- Sys.time()
ntimestamp(x)
# Neat representation of time from a time stamp
ntimestamp(x,
  show_date = FALSE, show_seconds = FALSE,
  show_timezone = FALSE
)
```

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